Application No. 10/772,102

## AMENDMENTS TO THE SPECIFICATION

## In the Specification

Please substitute the following amended paragraph(s) and/or section(s) (deleted matter is shown by strikethrough and added matter is shown by underlining):

Page 10, line 8.

A number of suitable solid, non-rare earth metal/metalloid precursor compounds can be delivered as an aerosol from solution. For example, zinc chloride (ZnCl<sub>2</sub>) and zinc nitrate (Zn(NO<sub>3</sub>)<sub>2</sub>) are soluble in water and some organic solvents, such as isopropyl alcohol. Aluminum nitrate (Al(NO<sub>3</sub>)<sub>3</sub>) is soluble in water. Barium chloride (BaCl<sub>2</sub>) and barium nitrate (Ba(NO<sub>3</sub>)<sub>2</sub>) are soluble in water. Magnesium nitrate (Mg(NO<sub>3</sub>)<sub>2</sub>) is somewhat soluble in water and is freely soluble in alcohol, and magnesium chloride (MgCl<sub>2</sub>) is somewhat soluble in water and alcohols. Additionally, the aerosol solution can comprise ammonium ions.

Page 22, line 2.

As noted above, metal/metalloid oxide particles can be converted to the corresponding metal/ metalloid sulfides by heating the oxide in a sulfurizing atmosphere formed by a H<sub>2</sub>S gas atmosphere or a CS<sub>2</sub> vapor atmosphere. The metal/metalloid oxides can be heated gently to form the sulfide. Since the sulfides are extremely reactive, the heating can be very gentile, generally less than about 500°C, preferably less than about 400 [[500]]°C and even more preferably less than about 300°C. Suitable concentrations of sulfurizing agent and reaction times can be evaluated empirically by examining the x-ray diffractograms of the resulting materials or by performing an elemental analysis.